FLIGHT MANUAL

PART I - User's Manual

Captain Sim is not affiliated with any entity mentioned or pictured in this document.
All trademarks are the property of their respective owners.

© 2014 Captain Sim www.captainsim.com

ABOUT THIS MANUAL

VERSION: 24 OCTOBER, 2014

WARNING: THIS MANUAL IS FOR MS FSX®/LOCKHEED MARTIN Prepar3D EXPANSION ONLY. DO NOT USE FOR FLIGHT.

The '777 Captain' FLIGHT MANUAL is organized into two Parts.
Each Part is provided as a separate Acrobat® PDF document:

- **Part I – User's Manual** - this document.
  The User's Manual describes the '777 Captain' product as a software title.
- Part II – Aircraft and Systems

The Manuals are available free of charge online.

THIS MANUAL IS SUPPLEMENTAL TO THE '777 CAPTAIN' WEB SITE WHICH WE HIGHLY RECOMMEND TO READ BEFORE USING THIS MANUAL.

© 2014 Captain Sim www.captainsim.com

777 Captain FLIGHT MANUAL

CONTENTS

5 THE BOEING 777 AIRCRAFT

6 777 CAPTAIN (777-200)

6 SPECIFICATION
7 INSTALLATION
7 UNINSTALLATION

7 EXTERIOR MODELS

8 THE BOEING 777-200ER AIRCRAFT
9 THE BOEING 777-200LR AIRCRAFT
10 ANIMATIONS
13 ENGINE VARIANTS
16 HOW 777-200LR MODEL IS DIFFERENT FROM 777-200ER MODEL
17 MISC FEATURES
18 VARIOUS AIRLINES UNIFORMS
19 PRE-SAVED VIEWS

20 INTERIOR (VIRTUAL COCKPIT)

20 FLIGHT DECK
20 ANIMATIONS
21 VC 3D ANIMATIONS (SWITCHES, BUTTONS, KNOBS ETC) CONTROL STANDARDS
22 CLICKABLE AREAS
22 LIGHTING
23 MISC FEATURES
24 PRE-SAVED VIEWS

24 COMPLETE PASSENGER CABIN

25 2D PANELS
25 SIMICONS PANEL
26 ANIMATION CONTROL PANEL
26 DISPLAY CLONES

26 SYSTEMS

26 ACE (AIRCRAFT CONFIGURATION EDITOR) UTILITY

27 'FLEET' TAB
27 INSTALLED
28 'ADD NEW' BUTTON
29 'PREFLIGHT' TAB
29 B777-200/B777-300 TABS

31 REPAINT KIT

32 FREE LIVERIES

33 777 FREIGHTER EXPANSION MODEL

33 THE BOEING 777 FREIGHTER AIRCRAFT
34 SPECIFICATION
34 INSTALLATION
34 UNINSTALLATION
35 HOW IS THE 777 FREIGHTER DIFFERENT FROM 777-200ER
36 HOW IS THE 777 FREIGHTER CABIN DIFFERENT FROM PAX VERSION

© 2014 Captain Sim www.captainsim.com

38 2D PANELS
38 ANIMATION CONTROL PANEL
39 LOAD MANAGERS

41 777-300 EXPANSION MODEL

41 THE BOEING 777-300 AIRCRAFT
42 SPECIFICATION
42 INSTALLATION
42 UNINSTALLATION
43 HOW ARE THE 777-300 AND 777-300ER DIFFERENT FROM 777-200ER
44 ENGINE VARIANTS
45 VARIOUS AIRLINES UNIFORMS
45 ANIMATION CONTROL PANEL

46 CUSTOMER CARE

© 2014 Captain Sim www.captainsim.com

THE BOEING 777 AIRCRAFT

The Boeing 777 is a long-range, wide-body, twin-engine jet airliner manufactured by Boeing Commercial Airplanes. It is the world's largest twinjet and is commonly referred to as the "Triple Seven". The aircraft has seating for over 300 passengers and has a range from 5,235 to 9,380 nautical miles (9,695 to 17,370 km), depending on model. Its distinguishing features include the largest-diameter turbofan engines of any aircraft, six wheels on each main landing gear, a circular fuselage cross-section, and blade-shaped tail cone. Developed in consultation with eight major airlines, the 777 was designed to replace older wide-body airliners and bridge the capacity difference between the 767 and 747.

The 777 is produced in two fuselage lengths. The original 777-200 model first entered service in 1995, followed by the extended-range 777-200ER in 1997; the stretched 777-300, which is 33.3 ft (10.1 m) longer, began service in 1998. The longer-range 777-300ER and 777-200LR variants entered service in 2004 and 2006, respectively, while a freighter version, the 777F, debuted in 2009.

© 2014 Captain Sim www.captainsim.com

777 Captain (777-200)

The 777-200 is the 777 Captain family key product (base pack) which delivers interior, systems and sounds to all of the expansion models (-300, Freighter).

Moreover, it delivers highly detailed and accurate digital replicas of Boeing 777-200ER aircraft (including GE90-94B and PW4090 engine variants) and Boeing 777-200LR aircraft with GE90-110B1 engines.

SPECIFICATION

The 777-200 is available exclusively as a download in Online Store at www.captainsim.com

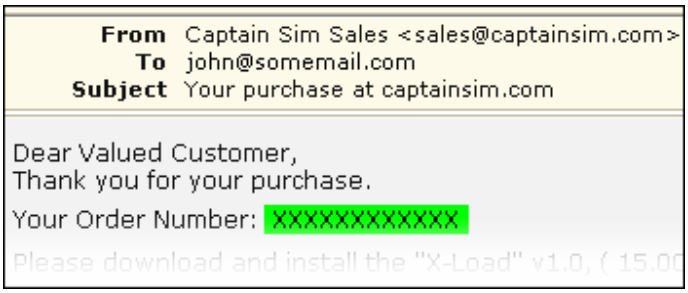
File Name: csx772_XX00.exe

Size: ~272 Mb

© 2014 Captain Sim www.captainsim.com

INSTALLATION

1. Shortly after a purchase you will receive an email message from Captain Sim Sales with your Order Number and download links.



Note:

How to get the product download links if you have not received the email receipt?

- Please check-in to Your Profile (ORDER NUMBER REQUIRED)
- In Your Profile click: ***Product Name > Extended Download Service*** and download the product.
- Please keep your ORDER NUMBER safe. You will need it for future re-install, updates etc.

2. Download the .exe file to any folder. Please backup the file(s) to avoid an extra charge in future. Please keep your download and Check-in info safe.

3. Run the .exe file (right click on the .exe file, select 'Run as Administrator') and follow the prompts.

Note:

- YOUR PC MUST BE CONNECTED TO THE INTERNET FOR THE INSTALLATION.
- ORDER NUMBER IS REQUIRED FOR THE INSTALLATION.
- The installation software will automatically add the '777-200' to your flight simulator.
- Upon installing the models will appear as 'Boeing 777-200' under 'Boeing' manufacturer, 'Captain Sim' publisher in the flight simulator aircraft selection menu.
- Links to Support, Updates, Manuals and Uninstall will be available via: Click START > Programs > Captain Sim > 777 Captain >

UNINSTALLATION

Click START > Programs > Captain Sim > 777 Captain > 777-200 > Uninstall

EXTERIOR MODELS

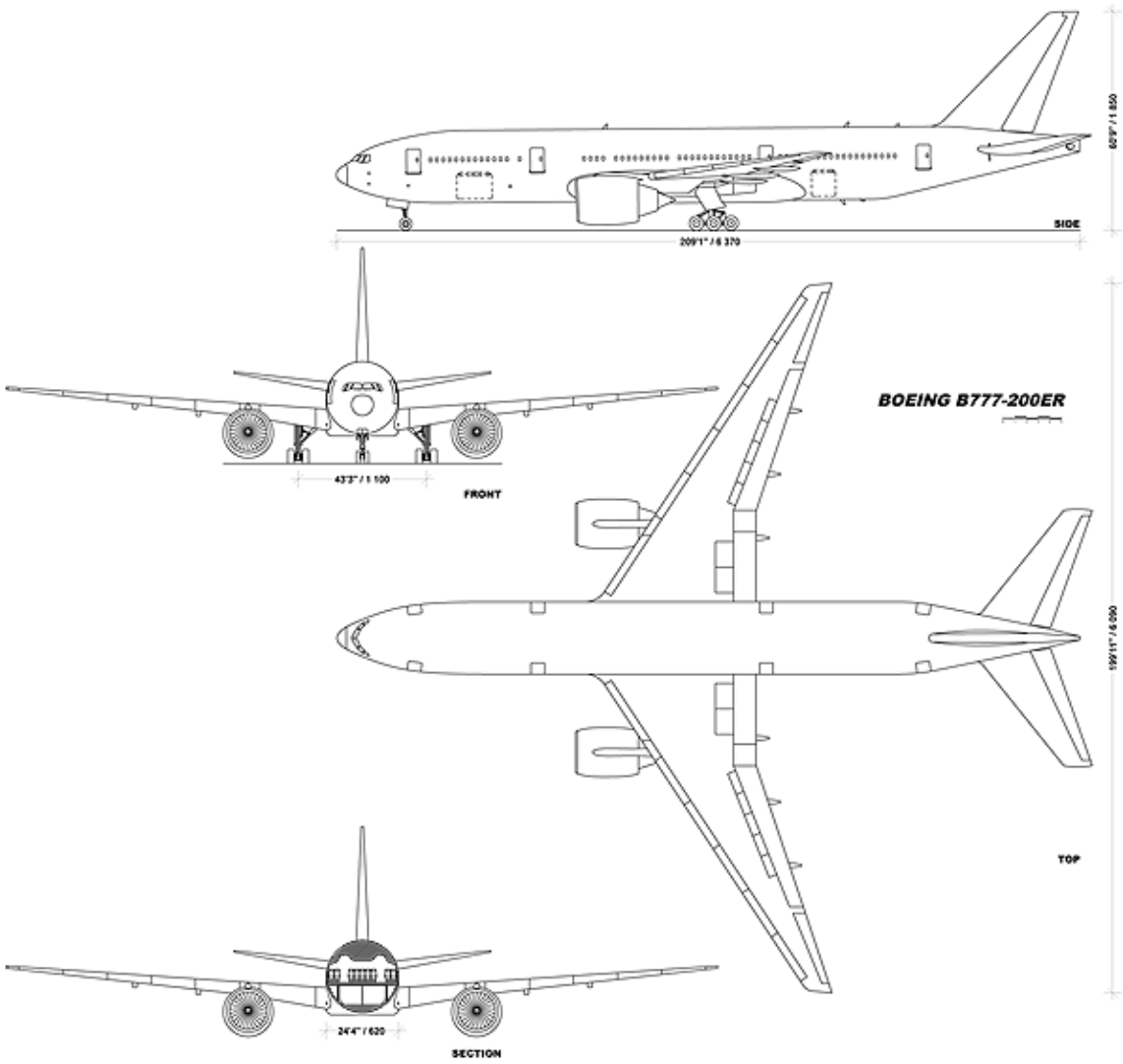
The product delivers highly detailed and accurate digital replicas of Boeing 777-200ER aircraft (including GE and PW engine variants) and Boeing 777-200LR aircraft.

© 2014 Captain Sim www.captainsim.com

THE BOEING 777-200ER AIRCRAFT

The 777-200ER ("ER" for Extended Range), the B-market version of the -200, was originally known as the 777-200IGW for its increased gross weight. The -200ER features additional fuel capacity and an increased maximum takeoff weight (MTOW) over the -200. Aimed at international airlines operating transatlantic routes, the -200ER's maximum range is 7,700 nautical miles (14,300 km). In addition to breaking the eastbound great circle "distance without landing" record, the -200ER also holds the record for the longest ETOPS-related emergency flight diversion (177 minutes under one engine), on a United Airlines flight carrying 255 passengers on March 17, 2003, over the Pacific Ocean.

The first -200ER was delivered to British Airways on February 6, 1997. Singapore Airlines, one of the type's largest customers, ordered over half of its -200ERs with reduced engine thrust specifications (de-rated) for use on medium-length routes. The de-rated engines lower MTOW, which reduce the aircraft's purchase price and landing fees, and can be re-rated to full -200ER standard for long-haul operations. As of June 2012, -200ER deliveries to 33 different customers totaled 417, ranking the -200ER as the most widely produced variant of the twinjet to date.

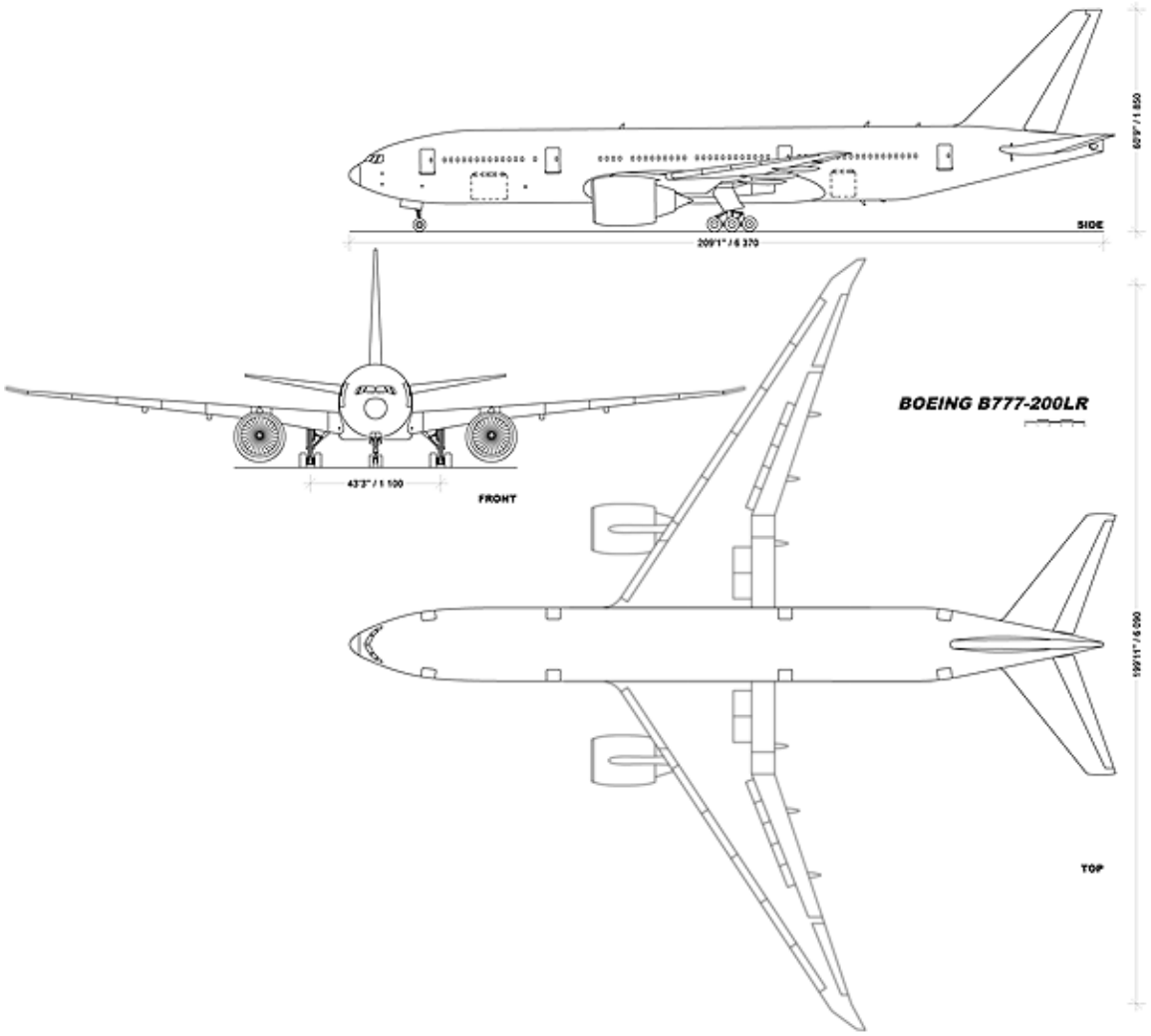


© 2014 Captain Sim www.captainsim.com

THE BOEING 777-200LR AIRCRAFT

The 777-200LR ("LR" for Longer Range), the C-market model, became the world's longest-range commercial airliner when it entered service in 2006. Boeing named this aircraft the *Worldliner*, highlighting its ability to connect almost any two airports in the world. It holds the world record for the longest nonstop flight by a commercial airliner, and has a maximum range of 9,380 nautical miles (17,370 km). The –200LR was intended for ultra-long-haul routes such as Los Angeles to Singapore.

The –200LR features an increased MTOW and three optional auxiliary fuel tanks in the rear cargo hold. Other new features include raked wingtips, redesigned main landing gear, and additional structural strengthening. The –200LR is equipped with wingtip extensions of 12.8 ft (3.90 m). The –200LR is powered by GE90-110B1 turbofans. As of June 2012, nine different –200LR customers have taken delivery of 54 aircraft.



© 2014 Captain Sim www.captainsim.com

ANIMATIONS

The model features hundreds of realistic animations:

Aft cargo door

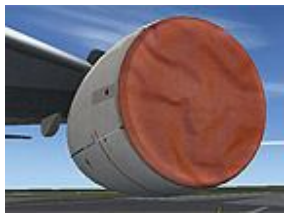
Service doors (4)

Aft cooling doors (2)

Aft cargo door

Passenger doors (4)

Forward cargo door

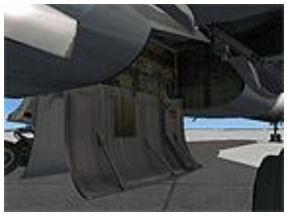


Engine intake covers (2)

Engine cowlings (4)

Engine reversers (2)

Compressor blades



Service access doors

APU intake

APU cowling

Aft outflow valve

Fwd outflow valve

© 2014 Captain Sim www.captainsim.com

DO NOT USE FOR FLIGHT

Cooling intake doors (2)

Fwd equipment doors (2)

Stabilizer compartment access door

Ground power hatch

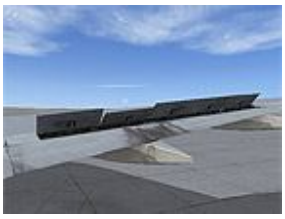
Aft access door

Nose wheel steering

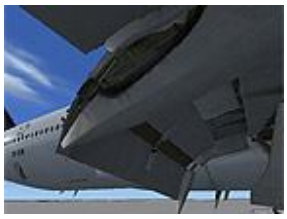
Nose landing gear

Landing gear doors (10)

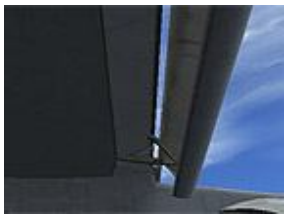
Landing gears (2)



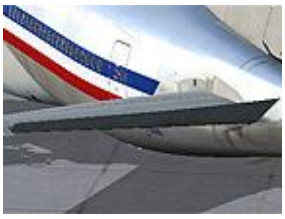
Spoilers (14 sections)



Wing flaps (6 sections)



Wing slats (4 sections)



Elevators (2)

Rudder

Rudder trim

Stabilizer

Outboard ailerons (2)

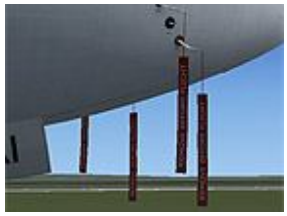
Inboard ailerons (2)

© 2014 Captain Sim www.captainsim.com

Ram air turbine

Angle of attack sensors (2)

Pilots' windows (2)



Plugs (4)

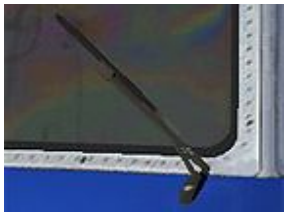
Escape slides (8)

Wheel chocks (6)

Radome

Radar antenna

Stewardess



Wipers (2)

© 2014 Captain Sim www.captainsim.com

ENGINE VARIANTS

The -200ER model is powered by GE90-94B, PW 4090 or RR 895 turbofans, the -200LR – by GE90-110B1.

HOW PW 4090 MODEL IS DIFFERENT FROM GE90-94B MODEL

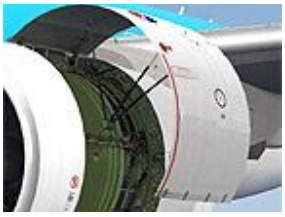
Engine thrust 2X	
PW 4090	GE90-94B
90,000 lbf (400 kN)	93,700 lbf (417 kN)

- Flight model
- EFB setup
- FMC setup

Fan diameter and blades shape

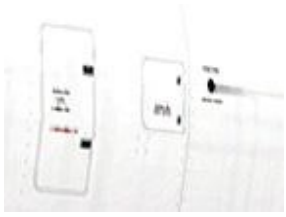
Spinner shape

Fin shape

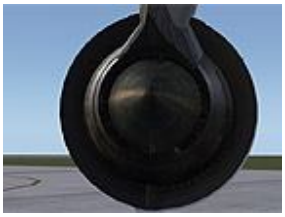


Cowling shape

Dump valves shape and location



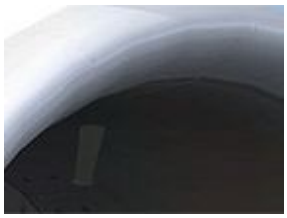
Service hatches size and location



Overall size and shape

Nozzle flaps

Pylons shape



Intake sensor

© 2014 Captain Sim www.captainsim.com

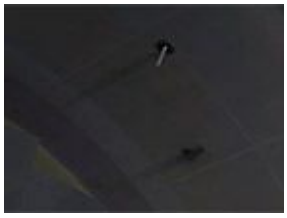
HOW RR 895 MODEL IS DIFFERENT FROM GE90-94B MODEL

Engine thrust 2X	
RR 895	GE90-94B
93,400 lbf (415 kN)	93,700 lbf (417 kN)

- Flight model
- EFB setup
- FMC setup

Blades shape

Outflow valve



Intake elements

Engine shape

Spinner shape

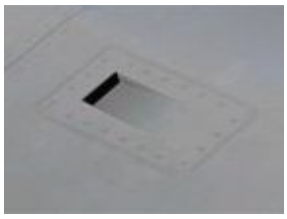
Intake shape

Nozzle shape

Pylon shape

Reverser shape

Right side hatches



Top intake

Cowling holder

© 2014 Captain Sim www.captainsim.com

HOW GE90-110 MODEL IS DIFFERENT FROM GE90-94B MODEL

Engine thrust 2X	
GE90-110B1	GE90-94B
110,100 lbf (490 kN)	93,700 lbf (417 kN)

- Flight model
- EFB setup
- FMC setup

Blades shape

Fan diameter

Intake shape

Overall size and shape

Nozzle shape

Reinforced pylons

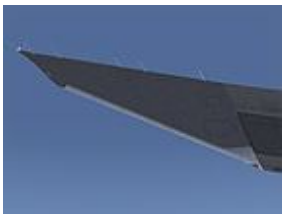
Dump valves location

© 2014 Captain Sim www.captainsim.com

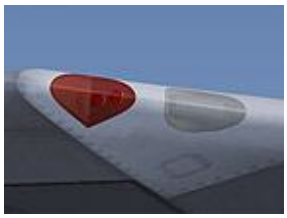
HOW 777-200LR MODEL IS DIFFERENT FROM 777-200ER MODEL

Wingspan - 212 ft 7 in (64.8 m)
Empty weight - 320,000 lb, (145,150 kg)
Maximum landing weight - 492,000 lb, (223,168 kg)
Maximum Takeoff Weight - 766,000 lb, (347,500 kg)
Maximum fuel capacity - 47,890 US gal, (181,283 L)
Engine (X2) - GE90-110B1
Thrust (X2) - 110,100 lbf (490 kN)

- Flight model
- EFB setup
- FMC setup



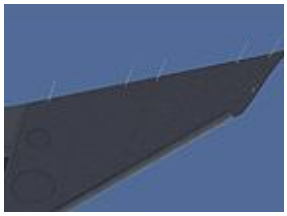
Wingtip extensions



Front edge lights shape and location

Rear position light shape and location

Number of PAX windows



Statics dischargers

Reinforced main gears

Reinforced nose gear

© 2014 Captain Sim www.captainsim.com

MISC FEATURES

Self-shade (DirectX 10)

Wing flex

Wing vortices

Passengers

Transparent windows

Light bloom

© 2014 Captain Sim www.captainsim.com

VARIOUS AIRLINES UNIFORMS

United Airlines

American Airlines

Japan Airlines

Air France

KLM

Singapore Airlines

Korean Air

British Airways

Air Canada

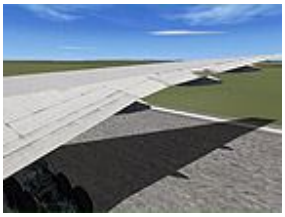
Delta Airlines

Emirates

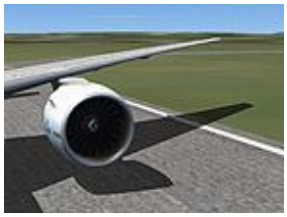
Malaysia Airlines

© 2014 Captain Sim www.captainsim.com

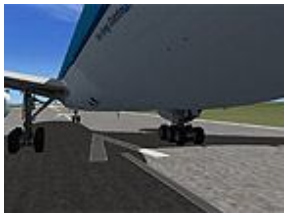
PRE-SAVED VIEWS



Right side window



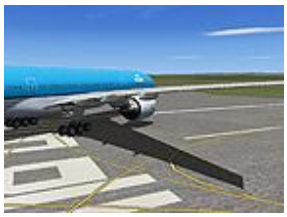
Left side window



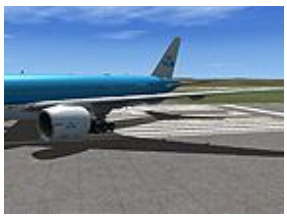
Landing gear

Nose

Tail



Right wing



Left wing

© 2014 Captain Sim www.captainsim.com

INTERIOR (VIRTUAL COCKPIT)

Highly detailed and functional Interior Model includes:
- Flight deck;
- Complete passenger cabin including galley and lavatories;
- Wing views.

FLIGHT DECK

The product delivers highly detailed and functional flight deck.

See FLIGHT MANUAL Part II – Aircraft Systems for details.

ANIMATIONS

Hundreds of custom animations:

Removable aft sun screen (2)

Removable fwd sun shields (2)

Removable left-right sun screen (2)

Wipers (2)

Control wheels and columns (2)

Side tables (2)

Wheel clipboards (2)

Headrests (2)

Pilots' windows (2)

Seat arm rests (5)

Pilot's seats fwd-bwd adjustment (2)

Pilot's seats up-down adjustment (2)

© 2014 Captain Sim www.captainsim.com

Sliding clipboards (2)

Pedals position adjustment handles (2)

Pedals (4)

Headphones (2)

Nose wheel tillers (2)

In addition to the above:

- Switches (346)
- Guarded Switches (34)
- Buttons (249)
- Selectors (55)
- Knobs (123)
- Levers (10)

See FLIGHT MANUAL Part II – Aircraft Systems for details.

VC 3D ANIMATIONS (SWITCHES, BUTTONS, KNOBS ETC) CONTROL STANDARDS

1. Two-positions controls - left click or mouse wheel.

2. Multi-position controls:
- Counterclockwise/decrease - left click or mouse wheel DOWN (towards).
- Clockwise/increase – right click or mouse wheel UP (outwards).

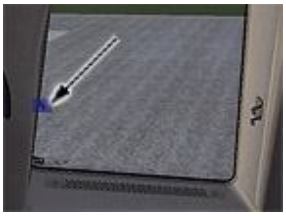
3. Three-position controls with middle spring-back position:
- Down/left - left click or mouse wheel.
- Up/right – right click or mouse wheel.

4. Levers and other click-n-drag controls:
- Decrease - left click+drag or mouse wheel.
- Increase - right click+drag or mouse wheel.

© 2014 Captain Sim www.captainsim.com

CLICKABLE AREAS

The most of animated objects' clickable areas are very straight forward (just click, roll or drag what you see). But some objects might need some extra explanations (click area is shown in blue):



Show-hide sun screens (2)

Show-hide sun shields (2)

Show-hide sun screens (2)

Show-hide control wheel paper chart (2)

Show-hide pilots' windows paper charts (2 sets)

See FLIGHT MANUAL Part II – Aircraft Systems for details.

LIGHTING

In addition to the piece of art light maps the following features provide a wide selection of flight deck lighting options.

Displays brightness control

Each of the six primary displays plus three CDU displays and two EFB displays has independent brightness control. By default the displays are set at 90% of brightness. All work independently from each other and the other lighting features.

© 2014 Captain Sim www.captainsim.com

Dome lights

Two Dome lights work independently from other lighting features.

Map lights

Two Map lights work independently from each other and the other lighting features.

FWD panels flood lights

Two pairs of the flood lights are located under the glareshild and work independently from each other and the other lighting features

Glareshield panel lights

Glareshield panel lights are located over the glareshild panel and work independently from the other lighting features

See FLIGHT MANUAL Part II – Aircraft Systems for details.

MISC FEATURES

Self shade
The self shade works in DirectX 10 mode only.

© 2014 Captain Sim www.captainsim.com

PRE-SAVED VIEWS

FSX Menu > Views > View Mode > Cockpit > Virtual Cockpit then cycle A key or press S key until you get virtual cockpit view then cycle A key.

Captain's seat

CDU

Overhead

Electronic flight bag

First Officer's seat

COMPLETE PASSENGER CABIN

In order to provide a better feeling that you fly a huge airliner, we have built a complete passenger cabin model including galley and lavatories. Wing views are also available.

First class cabin

Business class cabin

Economy class cabin

Galleys

Portside wing view

Straboard wing view

Note: The flight deck and the PAX cabin models are extremely detailed and consist of hundreds thousands of polygons each. So due to FSX limitation the PAX cabin is separated from the flight deck as an independent aircraft. To use the PAX cabin select the **777 Passenger cabin** from FSX Aircraft menu.

© 2014 Captain Sim www.captainsim.com

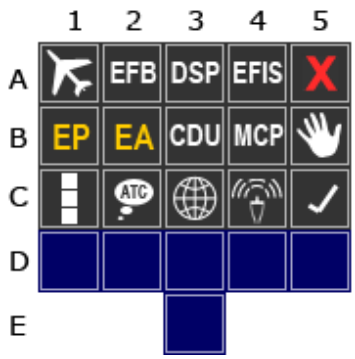
2D PANELS

For better usability the following 2D panels are included:

- Simicons
- Animations Control
- Electronic Flight Bag
- CDU
- MCP
- Display Select Panel
- EFIS
- Display clones

SIMICONS PANEL

Press Shift+2 to show/hide the panel.



The icons legend:	*Keys*
1A — Animations control	Shift+3
1B — External Power Control*	-
1C — Standby displays	-
1D — Left Outboard Display**	
2A — Electronic Flight Bag	Shift+4
2B — External bleed air control	-
2C — FSX ATC	` (ATC Window, not active when FMC Keyboard is on)
2D — Left Inboard Display	-
3A — Display Select panel	Shift+5
3B — CDU	Shift+7
3C — GPS	-
3D — Upper Center Display	
3E — Lower Center Display	
4A — EFIS	Shift+6
4B — MCP	Shift+8
4C — Radio stack	Shift+9
4D — Right Inboard Display	-
5A — Exit the Simicons panel	Shift+2
5B — Simicons panel drag area	-
5C — FSX Kneeboard	Shift+F10
5D — Right Outboard Display	

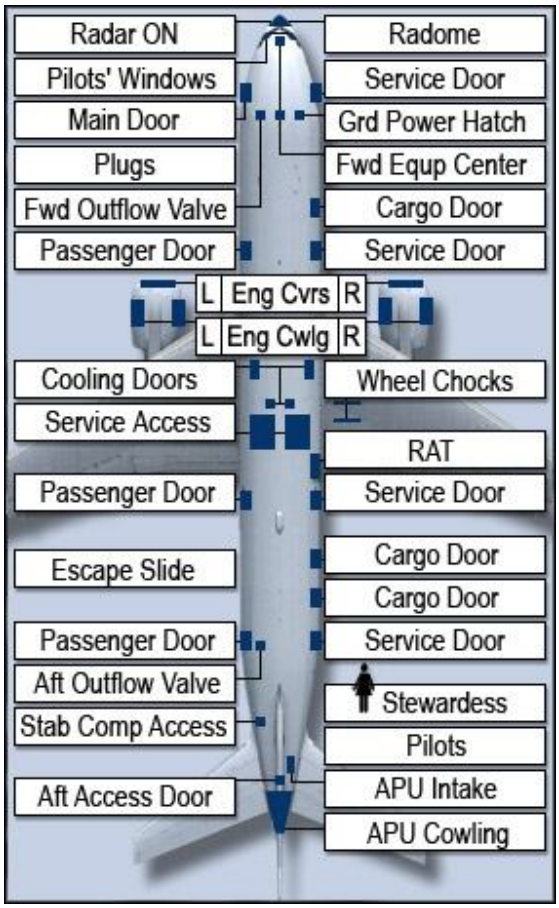
* By default no external power connected.
- EP icon first click connects primary external power.
- EP icon second click connects secondary external power.
- EP icon third click connects both (primary and secondary) external power.
- EP icon fourth click disconnects all external power.

** OR click any display in VC to show/hide display's 2D panel.

© 2014 Captain Sim www.captainsim.com

ANIMATION CONTROL PANEL

Press Shift+3 to show/hide the panel.



Click any white button to control animations of the Exterior Model.

Notes:

- You cannot put the ENGINE COVERS if the engines are running.
- The following animations are INOP inflight:
    - Passenger doors
    - Service access
    - Cargo doors
    - Plugs
    - Aft access door
    - Radome
    - Ground power hatch
    - Fwd equipment center
    - APU cowling
    - APU intake
    - Wheel chocks
    - Escape slides
    - Stabilizer compartment access door
- You cannot hide PILOTS if the engines are running.
- You cannot inflate ESCAPE SLIDES if the doors are closed.

Animations hotkeys:
Main Door - Sift+E+1
Forward Cargo Door - Shift+E+3
Aft Cargo Door - Shift+E+4

DISPLAY CLONES

For better usability 2D clones of the following displays are available:

- Left Outboard Display
- Left Inboard Display
- Upper Center Display
- Lower Center Display
- Right Inboard Display
- Right Outboard Display

Use Simicons panel to show/hide the display clones.

For details on the system panels See FLIGHT MANUAL Part II – Aircraft Systems.

SYSTEMS

See FLIGHT MANUAL Part II – Aircraft Systems for details.

© 2014 Captain Sim www.captainsim.com

ACE (AIRCRAFT CONFIGURATION EDITOR) UTILITY

FLEET TAB

INSTALLED

The INSTALLED tab helps you to manage existing (installed to FSX) '777 Captain' liveries:

HOW TO EDIT LIVERY DESCRIPTION?

- You can modify texts in description field and Aircraft variation field. You cannot change Aircraft type.
- When finished, press 'SAVE CHANGES' button to save the changes.

HOW TO DELETE A LIVERY?

- Select 'AIRCRAFT TYPE'.
- Select 'AIRCRAFT VARIATION'.
- Press 'DELETE VARIATION' button. Pressing 'OK' button will delete the selected variation from your '777 Captain' fleet. No backup copy will be saved.

CHECK FOR UPDATES

Current version number is shown. Tick the 'Automatically check for update when FSX started' box if you want to enable automatic check.

Press SAVE CHANGES to save all settings.

© 2014 Captain Sim www.captainsim.com

'ADD NEW' BUTTON

The ADD NEW button helps you to add new '777 Captain' livery to FSX.

HOW TO ADD NEW LIVERY?

1. Make sure FSX is not running.

2. Download and unzip new `777 Captain livery` archive to any folder.

3. Make sure all textures *.dds files, d*escription.txt* and *thumbnail.jpg* files are located in one folder. NO SUBFOLDERS!

Note: If no d*escription.txt* and *thumbnail.jpg* files found, ACE will add default ones.

4. Start ACE: START > PROGRAMS > CAPTAIN SIM > 777 Captain > ACE.

6. Press 'ADD NEW' button.

7. Find the folder and select *description.txt* file. Click OPEN. You will see a window with all information about the livery you are going to add.

Note: If no description.txt found, select any *.dds or *.txt file. In this case the livery will be added as Unknown Free Livery. You can rename it later.

8. Press OK button. The new livery will appear in FSX under BOEING manufacturer, CAPTAIN SIM publisher.

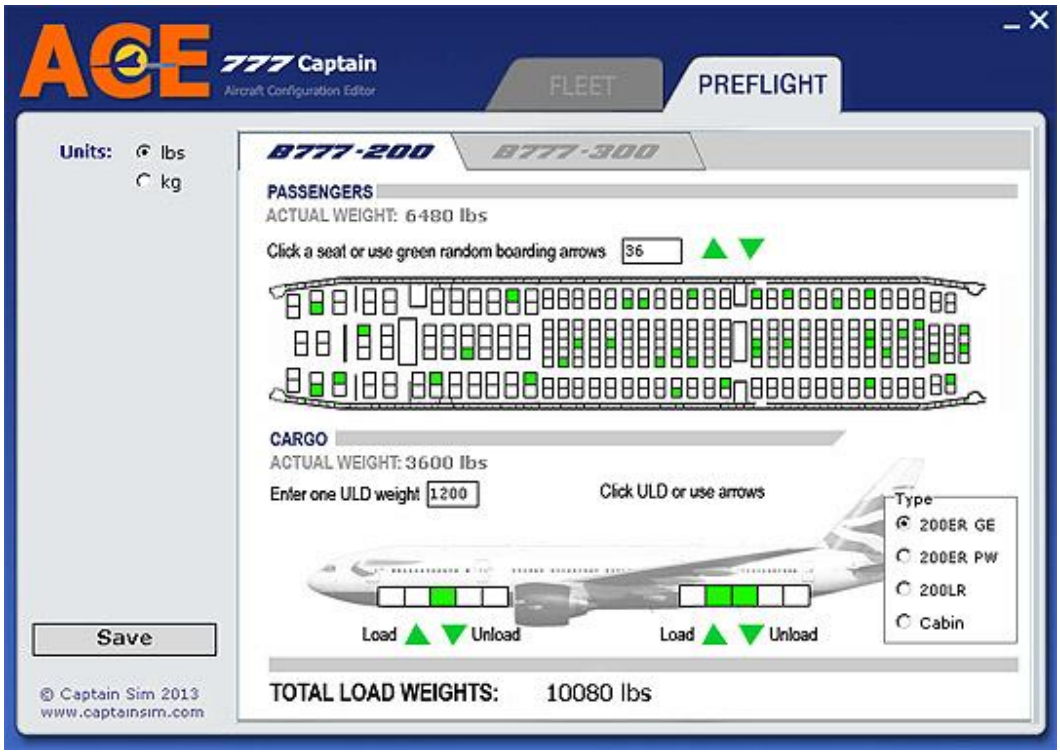
© 2014 Captain Sim www.captainsim.com

'PREFLIGHT' TAB

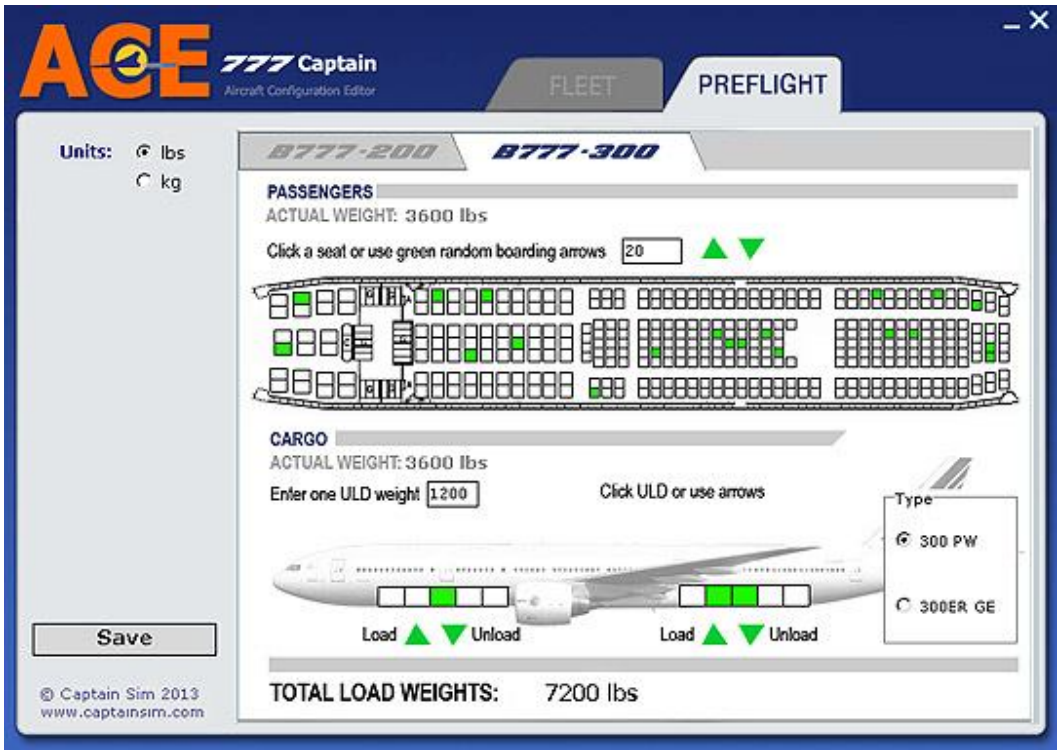
Use for payload settings of the 777 models available in 777-200, 777-300 and 777 Freighter Expansion Models.

Note:
When you open this tab ACE always reads 0 KG/LBS regardless of your previous load settings.

B777-200/B777-300 TABS



© 2014 Captain Sim www.captainsim.com



Use radio button to select Measurement System – LBS (pounds) or KG (kilograms).

Passengers

Click a seat or use green random boarding arrows or enter a number of passengers in the field. Actual weight will be displayed.

Cargo

Enter one ULD weight. Click ULD section image or use green arrows to load/unload cargo on the lower deck. Actual cargo weight will be displayed.

Total Load Weights – displays current total load weight (PAX + Cargo).

Note:
No fuel included/calculated. For fuel load management use FSX default utilities.

Type

Select 200 ER-GE, 200 ER-PW, 200LR or Cabin (300 PW or 300ER GE for 777-300).

Press 'SAVE' Button. Load settings apply to 777 model.

© 2014 Captain Sim www.captainsim.com

REPAINT KIT

Prior to using the Repaint Kit please read Captain Sim Copyright Policy.

The Repaint Kit is one for all of the 777 variants (-200, -300, Freighter)

1. DOWNLOAD 777 Captain REPAINT KIT
Available via: Your Profile
In Your Profile click: Product Name > Repaint Kits

2. CREATE NEW LIVERY
- Texture files should not be renamed
- 777-200 texture files must be in DDS format as follows:
  cs777_1_T.dds – DXT5 WITH ALFA
  cs777_2_T.dds – DXT5 WITH ALFA
  cs777_3_T.dds – DXT5 WITH ALFA
  cs777_6_T.dds – DXT1 NO ALFA
  cs777_7_T.dds – DXT1 NO ALFA

- 777-300 texture files must be in DDS format as follows:
  cs773_1_T.dds – DXT5 WITH ALFA
  cs773_2_T.dds – DXT5 WITH ALFA
  cs773_3_T.dds – DXT5 WITH ALFA
  cs773_4_T.dds – DXT5 WITH ALFA
  cs777_6_T.dds – DXT1 NO ALFA
  cs777_7_T.dds – DXT1 NO ALFA

- 777 Freighter texture files must be in DDS format as follows:
  cs777_1_T.dds – DXT1 NO ALFA
  cs777_2_T.dds – DXT1 NO ALFA
  cs777_3_T.dds – DXT1 NO ALFA
  cs777_6_T.dds – DXT1 NO ALFA
  cs777_7_T.dds – DXT1 NO ALFA
  cs774_1_T.dds - DXT1 NO ALFA
  cs774_2_T.dds - DXT1 NO ALFA
  cs774_3_T.dds - DXT1 NO ALFA

3. CREATE DESCRIPTION.TXT
Do not modify text shown in bold font!
Do not type text shown in grey.

model = one of the following:
200ER_GE
200ER_PW
200LR_GE
200F_GE
300_PW
300ER_GE

ui_variation = Unique variation name. Should include full name and year when the livery was current AND repaint artists' initials. For example: Lufthansa 2000 JS

description = 777 Captain (Your description of the livery**). Free livery, repaint by** Your Name. E-mail address is recommended. **\n (c) 2013 Captain Sim www.captainsim.com**

atc_id = XXXXXX (any numbers & characters)

atc_airline = XXXXXX (any numbers & characters)

atc_flight_number = XXXXXX (any numbers & characters)

© 2014 Captain Sim www.captainsim.com

EXAMPLE OF THE DESCRIPTION.TXT FILE:

model = 200ER_GE
ui_variation=Lufthansa 2000
description=777 Captain (Lufthansa, 2000). Free livery, repaint by John Smith. \n (c) 2011 Captain Sim www.captainsim.com.
atc_id=1234
atc_airline=1234
atc_flight_number=1234

4. PACK TO ZIP ARCHIVE THE FOLLOWING FILES:

1. Texture sheets. DDS files. Include modified sheets only.
2. description.txt file
3. 256x128 pixels thumbnail.jpg image (screenshot) of the new livery.

IMPORTANT: All files must go the archive root without any intermediate folders.

5. TEST NEW LIVERY IN MSFS
Try to add your livery to MSFS.

6. UPLOAD THE NEW LIVERY ZIP TO ANY HOSTING SERVER.

7. PUBLISH NEW LIVERY USINGNG THIS FORM
Please make sure file description complies to Captain Sim Copyright Policy.

FREE LIVERIES

Free Liveries Catalog is available at our web site. Please check-in to Your Profile, click Product name link and use Get Free Liveries link.

© 2014 Captain Sim www.captainsim.com

777 Freighter Expansion Model

Expansion for 777-200 base pack.
The 777-200 base pack required.

Delivers highly detailed and accurate digital replica of Boeing 777 Freighter aircraft with GE90-115B1 engines.

This part of the manual describes the 777 Freighter Expansion Model specific features only.

THE BOEING 777 FREIGHTER AIRCRAFT

Responding to strong demand from cargo operators around the world for an efficient, long-range, and high-capacity freighter, Boeing launched the Boeing 777 Freighter in May 2005 with a launch order from Air France. Bringing unsurpassed efficiency to long-haul markets, the 777 Freighter provides more capacity than any other twin-engine freighter. The 777 Freighter is based on the technologically advanced 777-200LR Worldliner (Longer Range) passenger airplane and entered service in February 2009.

With a maximum takeoff weight of 766,800 pounds (347,810 kilograms), the 777 Freighter has a revenue payload capability of 112 tons (102 metric tons).

The 777 Freighter is capable of flying 4,900 nautical miles (9,070 km) with a full payload and general cargo market densities, making it the world's longest-range twin-engine freighter. The airplane's range capability translates into significant savings for cargo operators: fewer stops and associated landing fees, less congestion at transfer hubs, lower cargo handling costs and shorter cargo delivery times.

The 777 Freighter features capacity never seen before on a twin-engine freighter, accommodating 27 standard pallets (96 in x 125 in; 2.5 m x 3 m) on the main deck. The industry-standard 10-foot-high (3.1 m) pallets are accommodated by the large main deck cargo door that makes use of the airplane's volume capability. The lower cargo hold has the capacity for 10 pallets, as well as 600 cubic feet (17.0 cubic meters) of additional bulk cargo.

© 2014 Captain Sim www.captainsim.com

SPECIFICATION

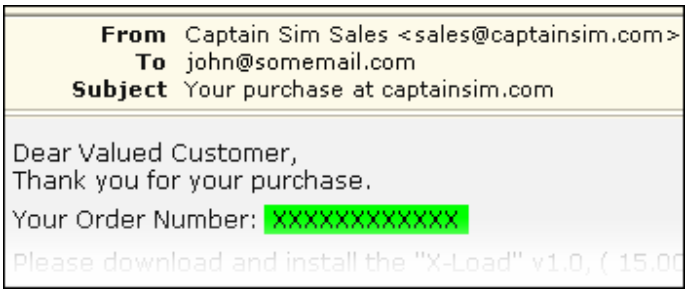
The 777 Freighter Expansion Model is available exclusively as a download in Online Store at www.captainsim.com

File Name: csx774_XX00.exe

Size: ~37 Mb

INSTALLATION

1. Shortly after a purchase you will receive an email message from Captain Sim Sales with your Order Number and download links.



Note:

How to get the product download links if you have not received the email receipt?
- Please check-in to Your Profile (ORDER NUMBER REQUIRED)
- In Your Profile click: ***Product Name > Extended Download Service*** and download the product.
- Please keep your ORDER NUMBER safe. You will need it for future re-install, updates etc.

2. Download the .exe file to any folder. Please backup the file(s) to avoid an extra charge in future. Please keep your download and Check-in info safe.

3. Run the .exe file (right click on the .exe file, select 'Run as Administrator') and follow the prompts.

Note:

- YOUR PC MUST BE CONNECTED TO THE INTERNET FOR THE INSTALLATION.
- ORDER NUMBER IS REQUIRED FOR THE INSTALLATION.
- The installation software will automatically add the '777 Freighter' to your MSFS.
- Upon installing the models will appear as 'Boeing 777 Freighter' under 'Boeing' manufacturer, 'Captain Sim' publisher in the MSFS aircraft selection menu.
- Links to Support, Updates, Manuals and Uninstall will be available via: Click START > Programs > Captain Sim > 777 Captain >

UNINSTALLATION

Click START > Programs > Captain Sim > 777 Captain > 777 Freighter Expansion model > Uninstall

© 2014 Captain Sim www.captainsim.com

HOW IS THE 777 FREIGHTER DIFFERENT FROM 777-200ER

Wingspan - 212 ft 7 in (64.8 m)
Empty weight - 318,300 lb, (144,400 kg)
Maximum landing weight - 575,000 lb, (260,816 kg)
Maximum Takeoff Weight - 766,800 lb, (347,800 kg)
Maximum fuel capacity - 47,890 US gal, (181,283 L)
Engine (X2) - GE90-115B1
Thrust (X2) - 115,540 lbf (514 kN)

- Flight model
- EFB setup
- FMC setup

Main cargo door

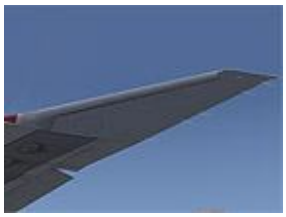
GE90-115B1 engines

Different doors layout

Main deck loader

Lower deck loader.

One window

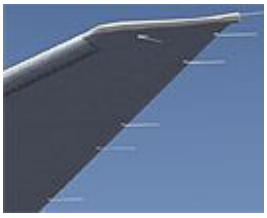


Wingtip extensions

Front edge lights shape and location

Rear position light shape and location

Reinforced nose gear



Statics dischargers

Reinforced main gears

© 2014 Captain Sim www.captainsim.com

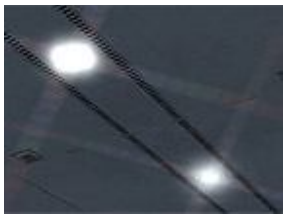
DO NOT USE FOR FLIGHT

Taxi camera

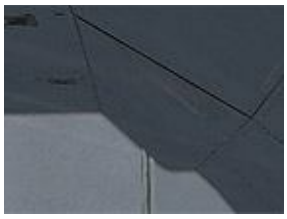
HOW IS THE 777 FREIGHTER CABIN DIFFERENT FROM PAX VERSION

The 777 Freighter flight deck is identical to the 777-200 base pack one. But the cabin features the following differences:

Cargo crew seats



Ceiling lights (23)



Cable boxes (2)

Cargo deck

Ceiling vent-holes (46)

Cargo units (13)

Doors (2)

Floor locks 1 (96)

Floor locks 2 (72)

Floor vents (88)

Main deck loader

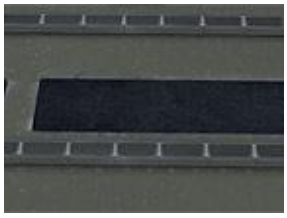
Main cargo door

© 2014 Captain Sim www.captainsim.com

DO NOT USE FOR FLIGHT

Galley

Stowage boxes



Floor rails (10)

Galley power outlets (2)

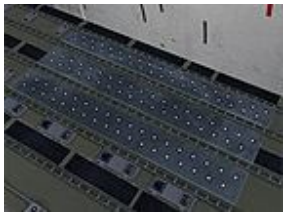
One window

Wall lights (44)

Cabin power outlets (12)

Wall handles (2)

Wall service units



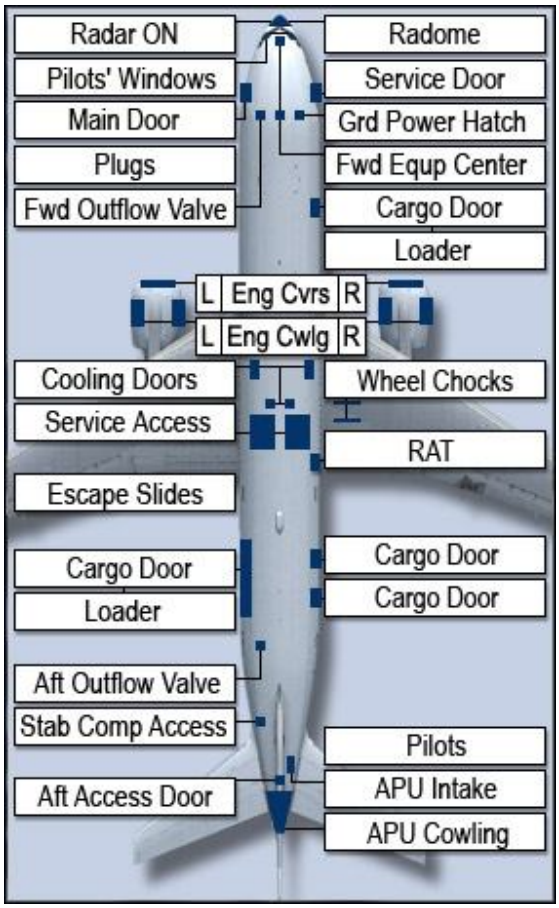
ULD rollers

© 2014 Captain Sim www.captainsim.com

2D PANELS

ANIMATION CONTROL PANEL

Press Shift+3 to show/hide the panel.



Click any white button to control animations of the Exterior Model.

Notes:

- You cannot put the ENGINE COVERS if the engines are running.
- The following animations are INOP inflight:
  - Service access
  - Main door
  - Cargo doors
  - Plugs
  - Aft access door
  - Radome
  - Ground power hatch
  - Fwd equipment center
  - APU cowling
  - APU intake
  - Wheel chocks
  - Escape slides
  - Stabilizer compartment access door
- You cannot hide PILOTS if the engines are running.
- You cannot inflate ESCAPE SLIDES if the doors are closed.
- You cannot show LOADERS inflight.

Animations hotkeys:
Main Door - Sift+E+1
Forward Cargo Door - Shift+E+3
Aft Cargo Door - Shift+E+4

© 2014 Captain Sim www.captainsim.com

LOAD MANAGERS

Two Load Manager Control panels provide real-time operation of the aircraft cargo management.
Use 'ANIMATION CONTROL PANEL (Shift+3) to show/hide Load Manager panels.

MAIN DECK LOAD MANAGER

LOADING PROCEDURE

1. SELECT UNITS
Click to select kilograms or pounds for both main deck and lower deck loaders.

2. CALL THE LOADER
Click SHOW/HIDE LOADER button to show/hide the loader model.

3. SET AN ULD WEIGHT
Click 1 ULD WEIGHT arrows to increase/decrease an ULD weight. Step is 100 units. All ULDs will have the same weight. Maximum ULD weight is 90000 pounds (40860 kilograms).

4. LOAD ULD ON THE LOADER
Click on any available ULD icon to load it on the Loader. The loader should be back on the loading area with a lift lowered.

5. DRIVE THE LOADER
Click FWD/BKW arrows to drive the Loader to and from the aircraft/loading area.

© 2014 Captain Sim www.captainsim.com

Note:
Make sure aircraft is on parking brakes. If an aircraft start rolling with the Loaders shown they will be hidden automatically.

6. LOADER LIFT
Click UP/DN arrows to move the lift up or down.

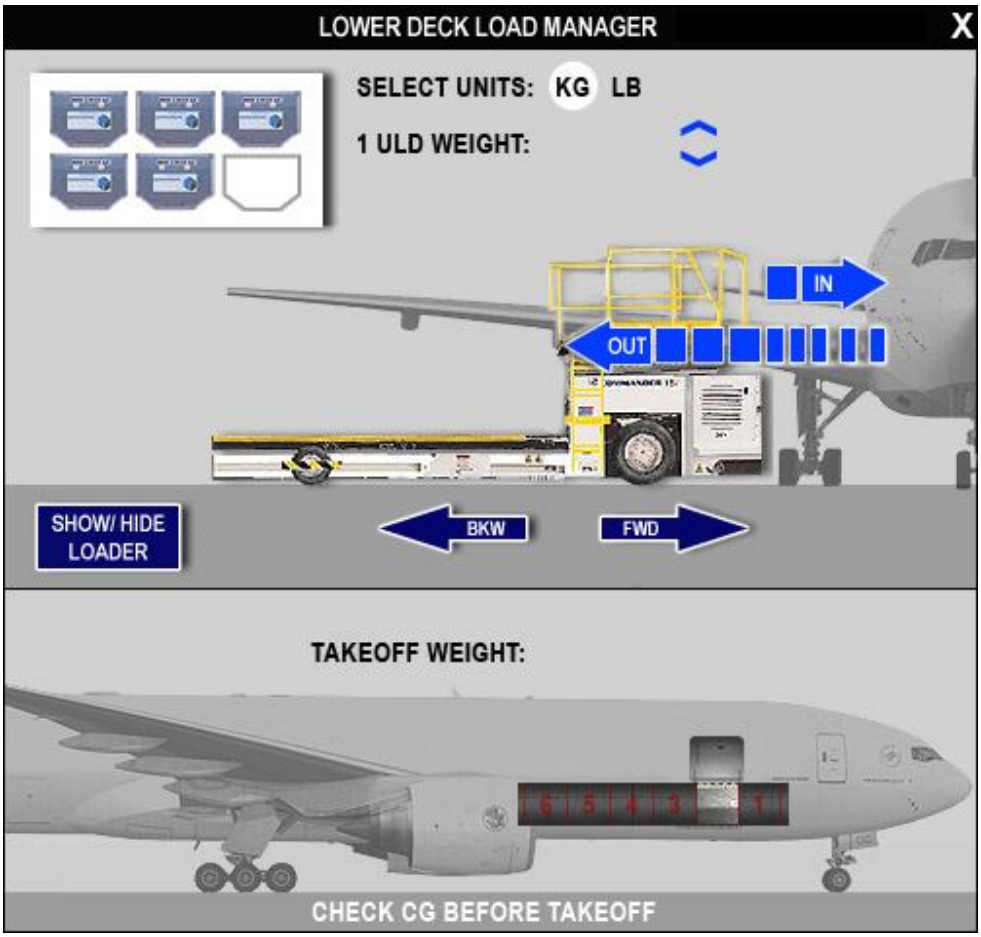
7. MOVE AN ULD IN OR OUT
Click IN/OUT arrows to move an ULD in/out of the aircraft.

Note:
Main Cargo Door must be open for loading. Use Model Animation Control 2D Panel (Shift+3).

8. MANAGE THE ULDS ON THE CARGO DECK
As soon as an ULD is loaded into aircraft it is ready for cargo deck management. You can drag the ULD and drop it to any of available spots using left mouse button. The utility performs all calculations automatically. The aircraft weight, CG and visual appearance get updated realtime according to the calculation.

Note:
Check CG and trimmer position before takeoff.

LOWER DECK LOAD MANAGER



Same as **MAIN DECK LOAD MANAGER** except no UP/DN arrows.

When you are done with aircraft loading no FSX flight or aircraft reload required. You are ready to go. Also you can save the flight (;) to save the load settings for future use.

© 2014 Captain Sim www.captainsim.com

777-300 Expansion Model

Expansion for 777-200 base pack.
The 777-200 base pack required.

Delivers highly detailed and accurate digital replica of Boeing 777-300 aircraft with PW 4098 engines, and Boeing 777-300ER aircraft with GE90-115B1 engines.

This part of the manual describes the 777-300 Expansion Model specific features only.

THE BOEING 777-300 AIRCRAFT

777-300

The stretched 777-300 was designed as an A-market replacement for 747-100s and 747-200s. Compared to the older 747s, the stretched 777 has comparable passenger capacity and range, and is designed to burn one-third less fuel and have 40 percent lower maintenance costs. The −300 features a 33.3 ft (10.1 m) fuselage stretch over the baseline −200, allowing seating for up to 550 passengers in a single class high-density configuration. Because of the aircraft's length, the −300 is equipped with a tailskid. The maximum range is 6,015 nautical miles (11,140 km), allowing the −300 to operate trunk routes previously flown by older 747s.

777-300ER

The 777-300ER ("ER" for Extended Range) is the B-market version of the −300. It features raked and extended wingtips, a new main landing gear, reinforced nose gear, and extra fuel tanks. It also has a strengthened fuselage, wings, empennage, and engine attachments. The standard GE90-115B turbofan is the world's most powerful jet engine in service, with a maximum thrust of 115,300 lbf (513 kN). Its maximum range is 7,930 nautical miles (14,690 km), made possible by higher MTOW and increased fuel capacity. The −300ER can fly approximately 34 percent further than the −300 with a full load of passengers and cargo.

© 2014 Captain Sim www.captainsim.com

SPECIFICATION

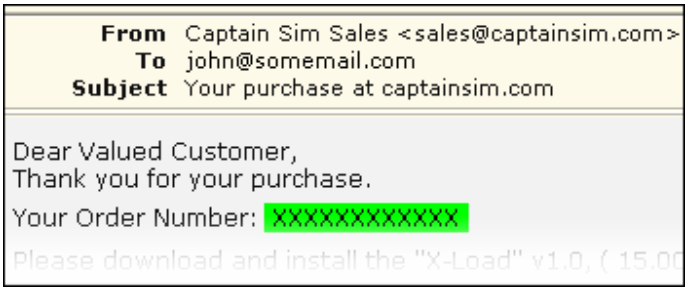
The 777-300 Expansion Model is available exclusively as a download in Online Store at www.captainsim.com

File Name: csx773_XX00.exe

Size: ~30 Mb

INSTALLATION

1. Shortly after a purchase you will receive an email message from Captain Sim Sales with your Order Number and download links.



Note:

How to get the product download links if you have not received the email receipt?
- Please check-in to Your Profile (ORDER NUMBER REQUIRED)
- In Your Profile click: ***Product Name > Extended Download Service*** and download the product.
- Please keep your ORDER NUMBER safe. You will need it for future re-install, updates etc.

2. Download the .exe file to any folder. Please backup the file(s) to avoid an extra charge in future. Please keep your download and Check-in info safe.

3. Run the .exe file (right click on the .exe file, select 'Run as Administrator') and follow the prompts.

Note:

- YOUR PC MUST BE CONNECTED TO THE INTERNET FOR THE INSTALLATION.
- ORDER NUMBER IS REQUIRED FOR THE INSTALLATION.
- The installation software will automatically add the '777-300' to your MSFS.
- Upon installing the models will appear as 'Boeing 777-300' and 'Boeing 777-300ER' under 'Boeing' manufacturer, 'Captain Sim' publisher in the MSFS aircraft selection menu.
- Links to Support, Updates, Manuals and Uninstall will be available via: Click START > Programs > Captain Sim > 777 Captain >

UNINSTALLATION

Click START > Programs > Captain Sim > 777 Captain > 777-300 Expansion model > Uninstall

© 2014 Captain Sim www.captainsim.com

HOW ARE THE 777-300 AND 777-300ER DIFFERENT FROM 777-200ER

777-300

Length - 242 ft 4 in (73.9 m)
Wingspan - 199 ft 11 in (60.9 m)
Empty weight - 353,800 lb (160,500 kg)
Maximum landing weight - 524,000 lb (237,680 kg)
Maximum Takeoff Weight - 660,000 lb (299,370 kg)
Maximum fuel capacity - 45,220 US gal (171,176 L)
Engine (X2) - PW 4098
Thrust (X2) - 98,000 lbf (436 kN))

- Flight model
- EFB setup
- FMC setup

Ground maneuvering cameras

Ground maneuvering cameras

Extended fuselage

Additional passenger door

Additional service door

Tailskid

777-300ER

Length - 242 ft 4 in (73.9 m)
Wingspan - 212 ft 7 in (64.8 m)
Empty weight - 370,000 lb (167,800 kg)
Maximum landing weight - 554,000 lb (251,290 kg)
Maximum Takeoff Weight - 775,000 lb (351,500 kg)
Maximum fuel capacity - 47,890 US gal, (181,283 L)
Engine (X2) - GE90-115B1
Thrust (X2) - 115,540 lbf (514 kN)

- Flight model
- EFB setup
- FMC setup

Ground maneuvering cameras

Ground maneuvering cameras

Reinforced nose gear

© 2014 Captain Sim www.captainsim.com

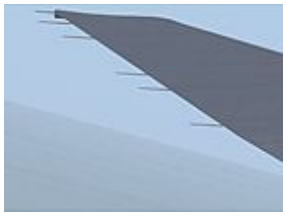
DO NOT USE FOR FLIGHT

Additional passenger door

Additional service door

Tailskid

Extended fuselage



Statics dischargers

Engine attachments

Wingtip extensions

Front edge lights shape and location

Rear position light shape and location

Modified main gear struts

ENGINE VARIANTS

The -300ER model is powered by GE90-115B1 turbofans, the -300 – by PW 4098.

HOW PW 4098 MODEL IS DIFFERENT FROM GE90-115B1

Engine thrust 2X	
GE90-115B1	PW 4098
115,540 lbf (514 kN)	98,000 lbf (436 kN)

© 2014 Captain Sim www.captainsim.com

VARIOUS AIRLINES UNIFORMS

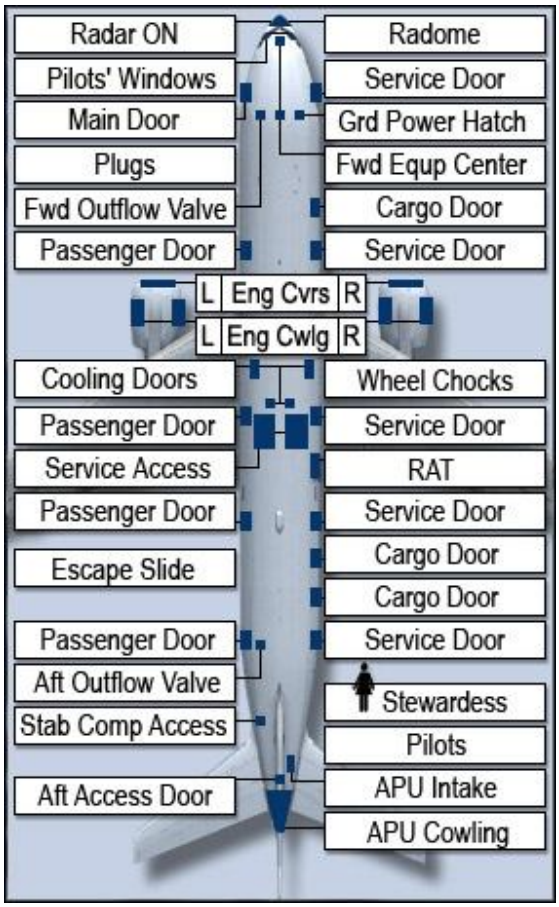
Air New Zealand

Air Nippon Airways

Cathay Pasific Airways

ANIMATION CONTROL PANEL

Press Shift+3 to show/hide the panel.



Click any white button to control animations of the Exterior Model.

Notes:

- You cannot put the ENGINE COVERS if the engines are running.
- The following animations are INOP inflight:
    - Passenger doors
    - Service access
    - Cargo doors
    - Plugs
    - Aft access door
    - Radome
    - Ground power hatch
    - Fwd equipment center
    - APU cowling
    - APU intake
    - Wheel chocks
    - Escape slides
    - Stabilizer compartment access door
- You cannot hide PILOTS if the engines are running.
- You cannot inflate ESCAPE SLIDES if the doors are closed.

Animations hotkeys:
Main Door - Sift+E+1
Forward Cargo Door - Shift+E+3
Aft Cargo Door - Shift+E+4

© 2014 Captain Sim www.captainsim.com

CUSTOMER CARE

FORUM

You are invited to join Captain Sim community forum

DAILY NEWS

For Captain Sim *daily* news please follow us at Twitter or Facebook.

VIDEO CHANNEL

Please watch our YouTube channel.

TECH SUPPORT

The '777 Captain' is the most advanced, complete and accurate digital replica of the B777 ever made for any game platform.

Our product is not perfect (unfortunately nothing is). But we are working on improvements. If you have some important issue to report, please check-in to Your Profile then click Product Name > Customer Support > and use the Trouble Ticket System. We process all tickets and consider the most significant issues for the next service packs.

SPECIAL THANKS TO

Mark Fletcher
Lou Thieblemont

© 2014 Captain Sim www.captainsim.com